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February 9, 1996

TO: Minerals File

FROM: D. Wayne Hedberg, Permit Supervisor *DWH*

RE: Site Inspection, 5-M Corporation, Silver Reef Site, M/053/002, Washington County, Utah

Date of Inspection: February 8, 1996  
Time of Inspection: 8:30 a.m. - 12:30 p.m.  
Conditions: Clear, sunny and warm  
Participants: Wayne Hedberg, and Tony Gallegos, DOGM

Purpose of Inspection: To perform a general walk-over of the site with appropriate representatives from the Bureau of Reclamation, Environmental Protection Agency (EPA), and the Bureau of Land Management.

The EPA has just recently obtained clearance from Jerry Glazier of 5-M Corporation, providing them with legal access to enter upon the mine site and perform the proposed site remediation work. The Bureau of Reclamation personnel included Clark Whitlock, Wade Brackett, Dave Almond, Mike Christiansen and Terry Despain. EPA representative Pete Stevenson and BLM representatives, Craig Zufelt and Larry Gore were also in attendance.

The bulk of the site inspection involved performance of an assessment of the onsite conditions as well as an inventory of the potential borrow areas that could be utilized as part of the site remediation process. The areas looked at included some of the local waste rock dumps, some of the smaller ore piles, pre-processing ore materials, as well as some native materials in the dike of the overflow containment pond located at the southern end of the process facilities area. One area in particular of interest to the Bureau of Reclamation engineers, was the Savage Shaft Waste Rock Dump, which is located adjacent to and immediately east of the heap leach processing area.

We met Mr. Everett Bassett (Dames and Moore historical and archeological consultant) during our inspection and jointly looked at a couple of maps he had prepared as part of a local historical/cultural survey report for an ongoing DOGM Abandoned Mine Land reclamation project. The report and maps indicate that the Savage Shaft, its rock masonry retaining wall and associated waste rock dumps have been categorized as possessing some historical significance, therein warranting some preservation or protection. We were asked by the Bureau of Reclamation and EPA personnel if we could check with the Division of State History, in particular Mr. James Dykmann, to





see if there was any possibility that they could utilize some of this waste rock dump for the final rock armoring of the capped heap leach facility. Pete Stevenson also asked if we could obtain a copy of a map, which is entitled "The Final Land Status and Ownership Map, Map #2-1-854, #3 of 4." We informed Mr. Stevenson that we would try to obtain a copy of that map and send it to him.

As stated earlier, we looked at the possibility of utilizing a portion of the native earthen dike materials located immediately south of the secondary asphalt-lined pond, as a source of borrow material for covering the heap. The plans are to place a cushion layer of fine grained material underneath the synthetic liner that will be used to cap the heap leach facility. The lined geothentic membrane will be covered with a clean source of sand or similar material followed by native soil layer, which will subsequently be covered with 1-2 feet of coarse rock material. The intent of the final armored layer is to prohibit the continued indiscriminate use of the heap leaching area by recreational vehicles (motorcycles, ATV's and the like). The heap and the adjacent tailings piles in the immediate area have been heavily used, as evidenced by significant ruts created by the wheels of these vehicles on the surface of these structures.

Mr. Whitlock indicated they hoped to refine their final design drawings and specifications within the next week and forward copies along to the appropriate agencies for review and final comment. They hope to mobilize their construction equipment sometime prior to February 20th, with work hopefully to begin on the 21st. A time-line has been prepared which is going through some final adjustments and modifications, again a copy of which we will be provided. The overall draft time line that we were shown indicates an approximate two-month period to complete the project. The Bureau of Reclamation will utilize all of their own equipment and their own contracting people, in-house, to perform the majority of the work required at the site.

After photo documenting the current conditions at the processing facilities area, we proceeded to take a number of photos of the Savage Shaft and the waste rock dumps that are of interest to the Bureau of Reclamation contractors. We took these photos with the intent of showing them to the Division of State History, if required, to assist them in making their decision on whether this material can be utilized or not.

Lastly, we visited the shop/warehouse area and noted that there has been changes since our last inspection of this facility. Apparently, the local teens and/or a gang have spray painted a significant amount of graffiti and associated ethnic slang over the exterior of the building. Several photos were taken to document this. In addition, there was evidence of additional changes inside the building, which continues to show signs of very heavy vandalism. It was obvious that the building has continued to be used as a party area. We also noted that someone has started to segregate and pile up some of the vandalized building materials (wood, metal parts, etc.) at one end of the building. It is possible that some of the material may have been brought into the building from somewhere else. Several photos were taken to document this change. We concluded our inspection and left the property at this point.